



SPYWOLF

Security Audit Report



Completed on
July 26, 2023

@SPYWOLFNETWORK



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SPYWOLF.CO





OVERVIEW

This audit has been prepared for **XDOGEAI** to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

“

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

”

- SPYWOLF Team -





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XDOGEAI



PROJECT DESCRIPTION

According to their website:

\$XDOGEAI is a community-driven token that had its ownership renounced and burnt LP given to the community from the beginning of its creation. No dev wallets, no control of contract, no control of liquidity. All burnt and safu! 2% Low tax marketing.

Release Date: Presale starts in July, 2023

Category: Meme token



CONTRACT INFO

Token Name
XDOGEAI

Symbol
XDOGEAI

Contract Address

0xDF74859b9d3B98d3c891f1580201c15D4713df27

Network

Binance Smart Chain

Language

Solidity

Deployment Date

Jul 25, 2023

Verified?

Yes

Total Supply

1,000,000,000

Status

Not launched

TAXES

Buy Tax

2%

Sell Tax

2%

*Taxes cannot be changed



Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat



TOKEN TRANSFERS STATS

Transfer Count	1
Uniq Senders	1
Uniq Receivers	1
Total Amount	1000000000 XDOGEAI
Median Transfer Amount	1000000000 XDOGEAI
Average Transfer Amount	1000000000 XDOGEAI
First transfer date	2023-07-25
Last transfer date	2023-07-25
Days token transferred	1

SMART CONTRACT STATS

Calls Count	1
External calls	1
Internal calls	0
Transactions count	1
Uniq Callers	1
Days contract called	1
Last transaction time	2023-07-25 17:19:50 UTC
Created	2023-07-25 17:19:50 UTC
Create TX	0x9a2e616981422b0e636569f178fba92953466db26d5a61f9cd9c10e888eb1edf
Creator	0x750ef912df20aed39a50d6d37fc8de8856ad7fdb



VULNERABILITY CHECK

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions and reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed



THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.



FOUND THREATS

Medium Risk

Owner can change contract's autoswap settings.

If providingLiquidity is true and tokenLiquidityThreshold is 0 and contract's token balances are 0, contract will halt on sell and selling will fail.

```
function updateLiquidityProvide(bool state) external onlyOwner {
    providingLiquidity = state;
}

function updateLiquidityTreshhold(uint256 new_amount) external onlyOwner {
    require(new_amount <= 1e7, "Swap threshold amount should be lower or equal to 1% of tokens");
    tokenLiquidityThreshold = new_amount * 10**decimals();
}

function _transfer(
    address sender,
    address recipient,
    uint256 amount
) internal override {
    .....
    if (providingLiquidity && sender != pair)
        Liquify(feeswap, currentTaxes);
    .....
}

function Liquify(uint256 feeswap, Taxes memory swapTaxes) private lockTheSwap {
    if (feeswap == 0) {
        return;
    }

    uint256 contractBalance = balanceOf(address(this));
    if (contractBalance >= tokenLiquidityThreshold) {
        if (tokenLiquidityThreshold > 1) {
            contractBalance = tokenLiquidityThreshold;
        }

        // Split the contract balance into halves
        uint256 denominator = feeswap * 2;
        uint256 tokensToAddLiquidityWith = (contractBalance * swapTaxes.liquidity) / denominator;
        uint256 toSwap = contractBalance - tokensToAddLiquidityWith;

        uint256 initialBalance = address(this).balance;

        swapTokensForETH(toSwap);
    }
}
```

- Recommendation:
 - Ensure that tokenLiquidityThreshold's value is always above 1 token and/or check is performed against contractBalance (if==0 return;) instead of feeswap variable in the Liquify() function.



Informational

Owner can exclude address from fees.

When address is excluded from fees, the user will receive the whole amount of the bought, sold and/or transferred tokens.

```
function updateExemptFee(address _address, bool state) external onlyOwner {
    exemptFee[_address] = state;
}

function bulkExemptFee(address[] memory accounts, bool state) external onlyOwner {
    for (uint256 i = 0; i < accounts.length; i++) {
        exemptFee[accounts[i]] = state;
    }
}
```

Owner can withdraw any tokens from the contract except the native \$XDOGE token.

When this function is present, in cases tokens sent into the contract by mistake or purposefully, contract's owner can retrieve them.

```
function rescueBNB(uint256 weiAmount) external onlyOwner {
    payable(owner()).transfer(weiAmount);
}

function rescueBEP20(address tokenAdd, uint256 amount) external onlyOwner {
    require(tokenAdd != address(this), "Owner can't claim contract's balance of its own tokens");
    IERC20(tokenAdd).transfer(owner(), amount);
}
```



RECOMMENDATIONS FOR

GOOD PRACTICES

1

Consider fundamental tradeoffs

2

Be attentive to blockchain properties

3

Ensure careful rollouts

4

Keep contracts simple

5

Stay up to date and track development

XDOGEAI

GOOD PRACTICES FOUND

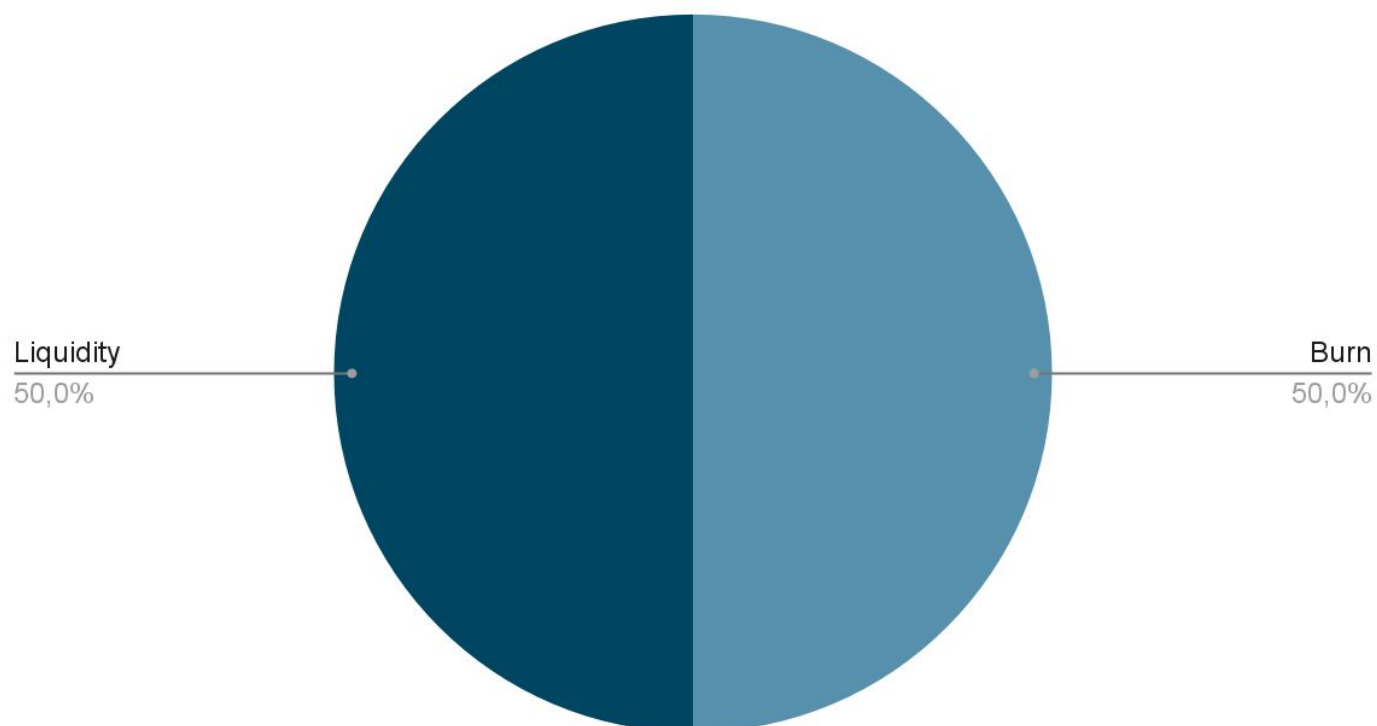
- ✓ The owner cannot mint new tokens after deployment
- ✓ The owner cannot stop or pause the contract
- ✓ The owner cannot set a transaction limit



The following tokenomics are based on the project's whitepaper and/or website:

- 50% - Liquidity
- 50% - Burn

Tokens distribution



TOKENOMICS



THE TEAM

⚠ The team is
anonymous

KYC INFORMATION

No KYC

We recommend the team to get a KYC in order to ensure trust and transparency within the community.





WEBSITE

Website URL

<https://www.xdogeai.com/>

Domain Registry

<https://www.wix.com>

Domain Expiration

2024-07-24

Technical SEO Test

Passed

Security Test

Passed. SSL certificate present

Design

Single page design with appropriate color scheme and graphics.

Content

The information helps new investors understand what the product does right away. No grammar mistakes found.

Whitepaper

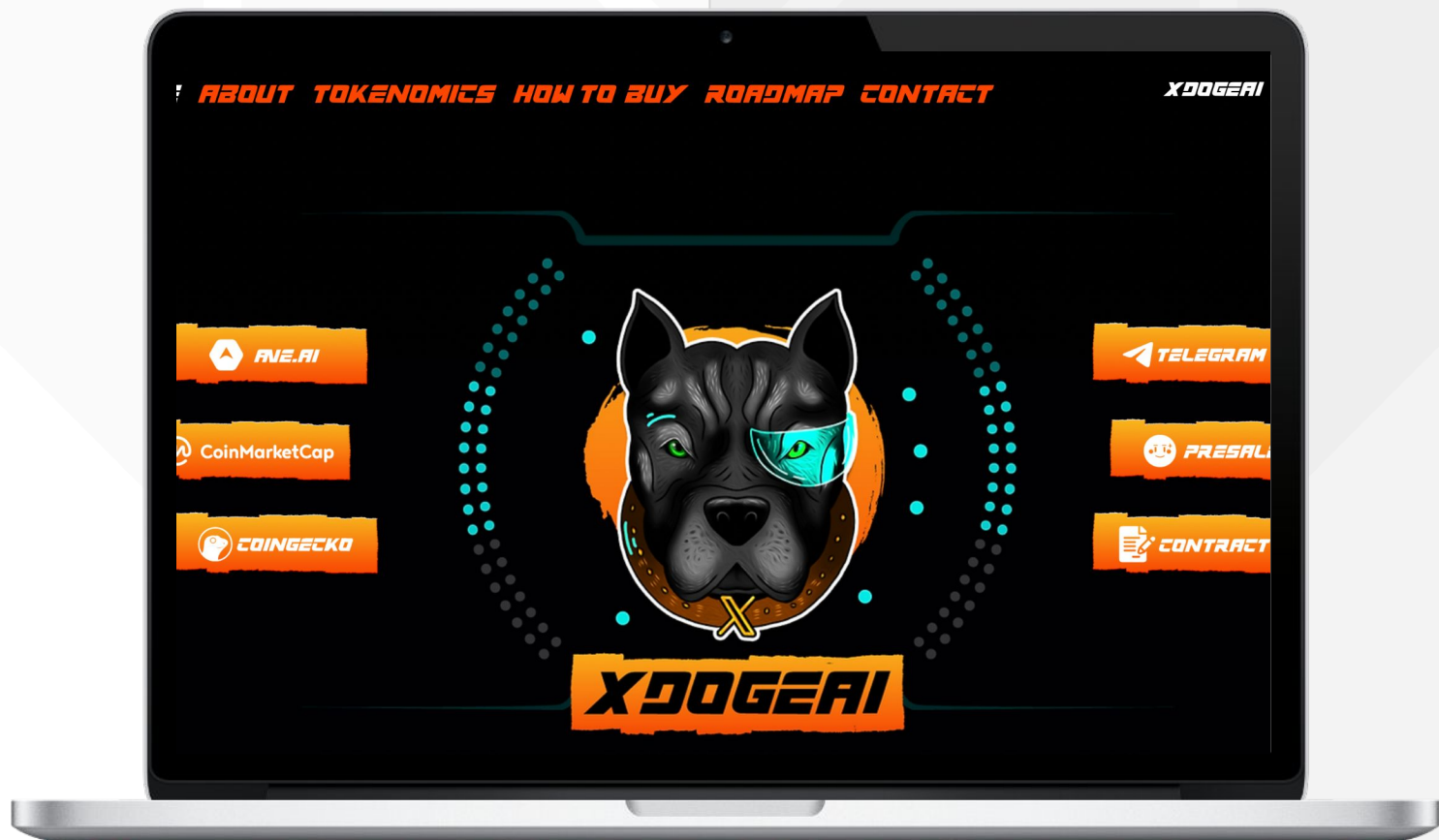
No

Roadmap

Yes, goals set without time frames.

Mobile-friendly?

Yes



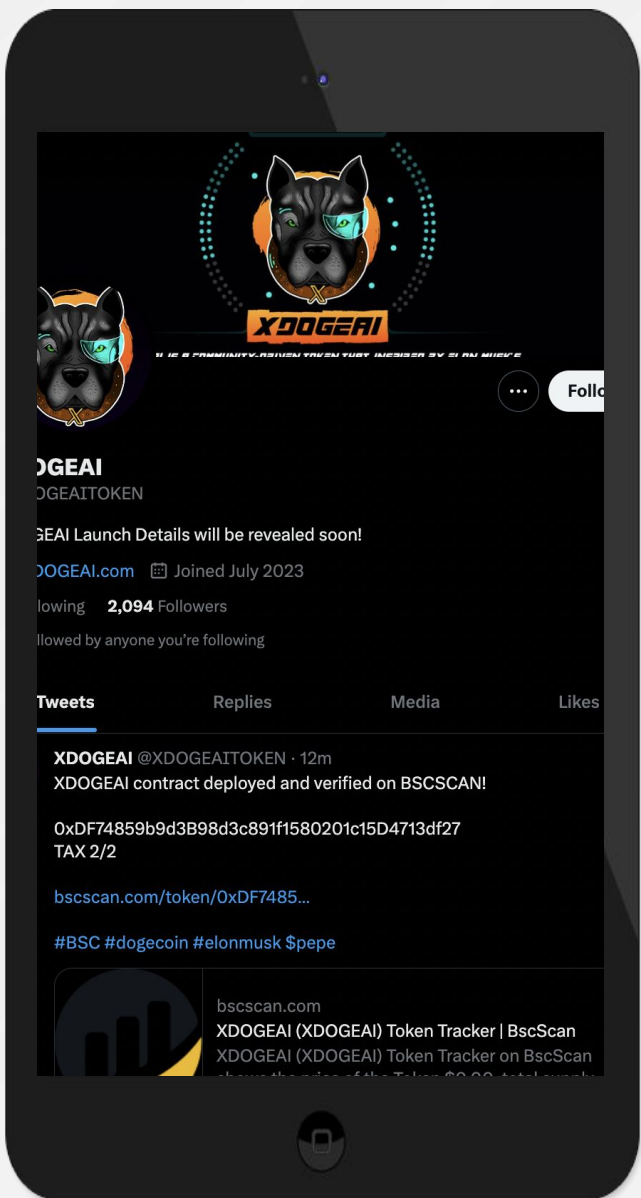
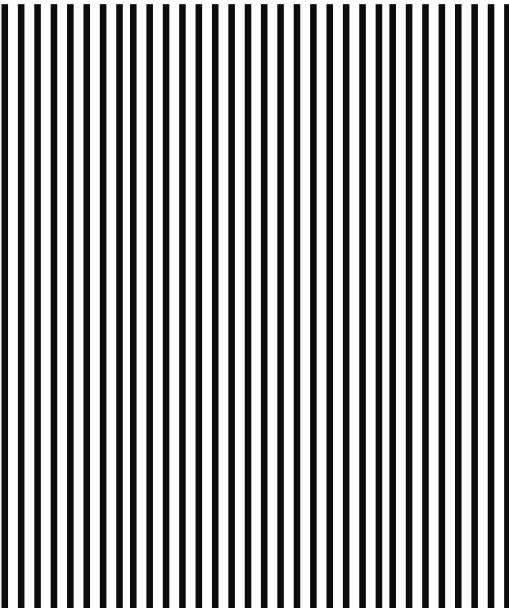
xdogeai.com



SOCIAL MEDIA & ONLINE PRESENCE



ANALYSIS
Project's social media
pages are active



Twitter
@xdogeaitoken

- 2 094 followers
- Active members
- Active mods



Discord

- Not available



Telegram
@XDOGEAITOKEN

- 5 301 members
- Active members
- Active mods



Medium

- Not available



SPYWOLF

CRYPTO SECURITY

Audits | KYCs | dApps
Contract Development

ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.